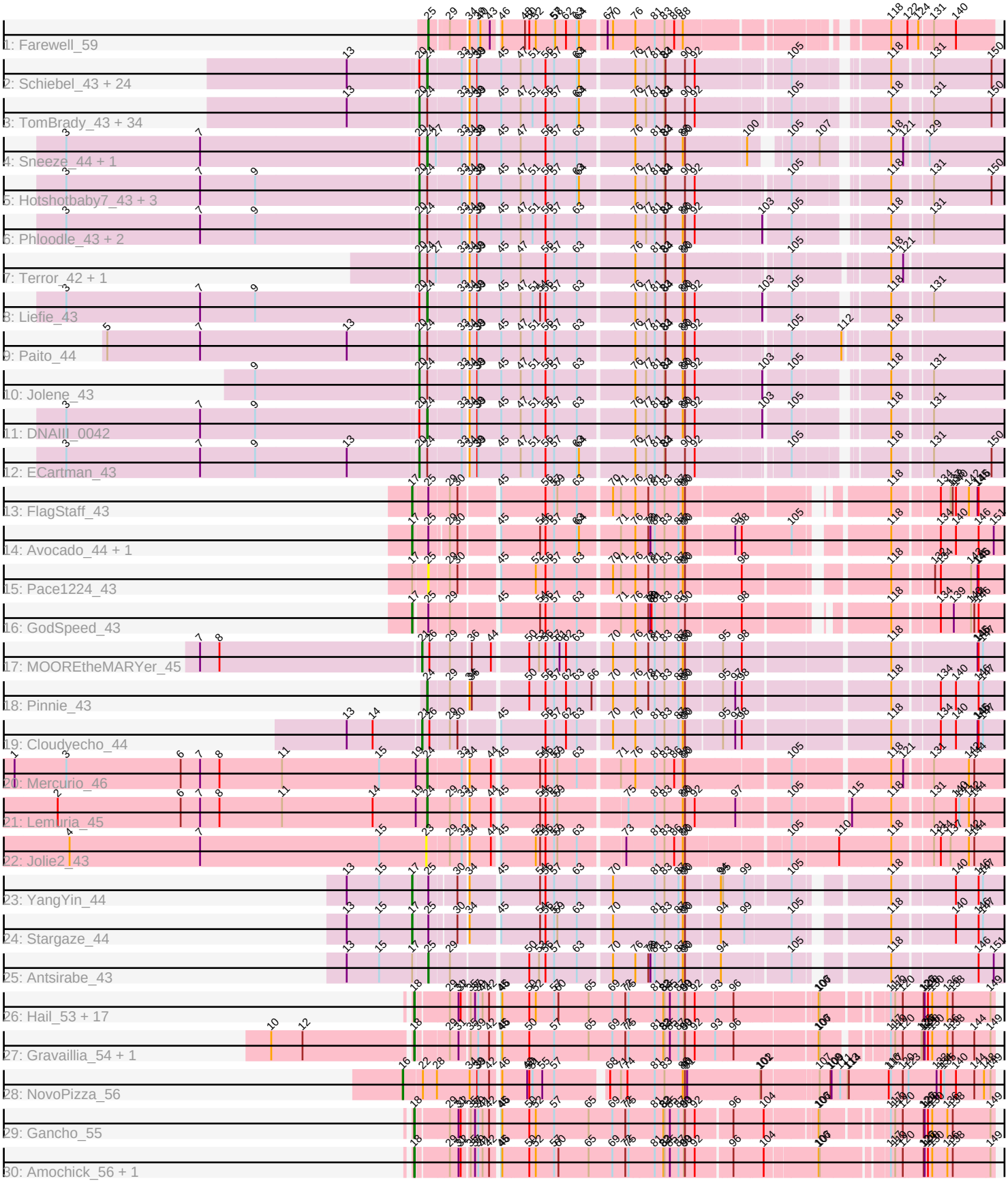
Pham 347420


1: Farewell_59
2: Schiebel_43 + 24
3: TomBrady_43 + 34
4: Sneeze_44 + 1
5: Hotshotbaby7_43 + 3
6: Phloodle_43 + 2
7: Terror_42 + 1
8: Liefie_43
9: Paito_44
10: Jolene_43
11: DNAIII_0042
12: ECartman_43
13: FlagStaff_43
14: Avocado_44 + 1
15: Pace1224_43
16: GodSpeed_43
17: MOOREtheMARYer_45
18: Pinnie_43
19: Cloudyecho_44
20: Mercurio_46
21: Lemuria_45
22: Jolie2_43
23: YangYin_44
24: Stargaze_44
25: Antsirabe_43
26: Hail_53 + 17
27: Gravaillia_54 + 1
28: NovoPizza_56
29: Gancho_55
30: Amochick_56 + 1

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347420 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347420 has 115 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Farewell_59
• Track 2 : Schiebel_43, Phish_43, Hope_43, Primanti_43, TinaBug_43, Avrafan_43, Cedasite_43, BPs_43, Darionha_43, Crespo_43, Jeilious_43, AizenPogi_43, BruceB_43, Camri_43, Jane_43, Annihilator_43, Phreak_43, ForeverHowLong_43, CassieYates_43, Frosty24_43, Terralys_42, BQuat_43, Halo_43, PinkYoshi_43, Angel_43
• Track 3 : TomBrady_43, JorRay_43, Maliketh_43, Zombie_43, MZKinsey_43, Coleslaw_43, Barkley26_43, Wendigo_43, Plagueis_43, DingDing_43, Olga_43, Kareem_43, Marmie_43, Gomashi_43, Ruriko_43, Cherrybomb426_43, Renaissance_43, Mowgli_43, Peeb_43, AzulaCat_43, Gideon_43, CLED96_43, ShaboiShabazz_43, GoldenAsh_43, OctaviousRex_43, ZoMa_43, DMoney_43, Grizzly_43, LouisV14_45, Richarlison_43, Remy19_43, Neoh_43, Sweets_43, Sizemore_43, Kasen3_43
• Track 4 : Sneeze_44, Rabbs_44
• Track 5 : Hotshotbaby7_43, Chance64_43, Aroostook_43, Jonghyun_42
• Track 6 : Phloodle_43, Periodt_43, Rattrick_43
• Track 7 : Terror_42, Taheera_42
• Track 8 : Liefie_43
• Track 9 : Paito_44
• Track 10 : Jolene_43
• Track 11 : DNAIII_0042
• Track 12 : ECartman_43
• Track 13 : FlagStaff_43
• Track 14 : Avocado_44, Cambiare_45
• Track 15 : Pace1224_43
• Track 16 : GodSpeed_43
• Track 17 : MOOREtheMARYer_45
• Track 18 : Pinnie_43
• Track 19 : Cloudyecho_44
• Track 20 : Mercurio_46
• Track 21 : Lemuria_45
• Track 22 : Jolie2_43
• Track 23 : YangYin_44
• Track 24 : Stargaze_44
• Track 25 : Antsirabe_43
• Track 26 : Hail_53, Webster2_56, Luke_55, Amymech_56, LilHazelnut_56, Hadrien_55, Wishmaker_53, Giles_53, Forge_53, Kinbote_55, Ubuntu_56,

BloominB_55, Ein37_56, HH92_55, DeepSoil15_56, Luna22_53, Evanesce_55, Dewey_53
• Track 27 : Gravaillia_54, OBUpride_56
• Track 28 : NovoPizza_56
• Track 29 : Gancho_55
• Track 30 : Amochick_56, Daegal_58

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 20, it was called in 47 of the 109 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aroostook_43, AzulaCat_43, Barkley26_43, CLED96_43, Chance64_43, Cherrybomb426_43, Coleslaw_43, DMoney_43, DingDing_43, ECartman_43, Gideon_43, GoldenAsh_43, Gomashi_43, Grizzly_43, Hotshotbaby7_43, Jolene_43, Jonghyun_42, JorRay_43, Kareem_43, Kasen3_43, LouisV14_45, MZKinsey_43, Maliketh_43, Marmie_43, Mowgli_43, Neoh_43, OctaviousRex_43, Olga_43, Paito_44, Peeb_43, Periodt_43, Phloodle_43, Plagueis_43, Rattrick_43, Remy19_43, Renaissance_43, Richarlison_43, Ruriko_43, ShaboiShabazz_43, Sizemore_43, Sweets_43, Taheera_42, Terror_42, TomBrady_43, Wendigo_43, ZoMa_43, Zombie_43,

Genes that have the "Most Annotated" start but do not call it:
• AizenPogi_43, Angel_43, Annihilator_43, Avrafan_43, BPs_43, BQuat_43, BruceB_43, Camri_43, CassieYates_43, Cedasite_43, Crespo_43, DNAIII_0042, Darionha_43, ForeverHowLong_43, Frosty24_43, Halo_43, Hope_43, Jane_43, Jeilious_43, Liefie_43, Phish_43, Phreak_43, PinkYoshi_43, Primanti_43, Rabbs_44, Schiebel_43, Sneeze_44, Terralys_42, TinaBug_43,

Genes that do not have the "Most Annotated" start:
• Amochick_56, Amymech_56, Antsirabe_43, Avocado_44, BloominB_55, Cambiare_45, Cloudyecho_44, Daegal_58, DeepSoil15_56, Dewey_53, Ein37_56, Evanesce_55, Farewell_59, FlagStaff_43, Forge_53, Gancho_55, Giles_53, GodSpeed_43, Gravaillia_54, HH92_55, Hadrien_55, Hail_53, Jolie2_43, Kinbote_55, Lemuria_45, LilHazelnut_56, Luke_55, Luna22_53, MOOREtheMARYer_45, Mercurio_46, NovoPizza_56, OBUpride_56, Pace1224_43, Pinnie_43, Stargaze_44, Ubuntu_56, Webster2_56, Wishmaker_53, YangYin_44,

Summary by start number:

Start 16:
• Found in 1 of 115 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 109
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_56 (Q),

Start 17:
• Found in 8 of 115 (7.0%) of genes in pham
• Manual Annotations of this start: 6 of 109

• Called 75.0% of time when present
• Phage (with cluster) where this start called: Avocado_44 (G2), Cambiare_45 (G2), FlagStaff_43 (G2), GodSpeed_43 (G2), Stargaze_44 (G5), YangYin_44 (G5),

Start 18:
• Found in 23 of 115 (20.0%) of genes in pham
• Manual Annotations of this start: 23 of 109
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amochick_56 (Q), Amymech_56 (Q), BloominB_55 (Q), Daegal_58 (Q), DeepSoil15_56 (Q), Dewey_53 (Q), Ein37_56 (Q), Evanesce_55 (Q), Forge_53 (Q), Gancho_55 (Q), Giles_53 (Q), Gravaillia_54 (Q), HH92_55 (Q), Hadrien_55 (Q), Hail_53 (Q), Kinbote_55 (Q), LilHazelnut_56 (Q), Luke_55 (Q), Luna22_53 (Q), OBUpride_56 (Q), Ubuntu_56 (Q), Webster2_56 (Q), Wishmaker_53 (Q),

Start 20:
• Found in 76 of 115 (66.1%) of genes in pham
• Manual Annotations of this start: 47 of 109
• Called 61.8% of time when present
• Phage (with cluster) where this start called: Aroostook_43 (G1), AzulaCat_43 (G1), Barkley26_43 (G1), CLED96_43 (G1), Chance64_43 (G1), Cherrybomb426_43 (G1), Coleslaw_43 (G1), DMoney_43 (G1), DingDing_43 (G1), ECartman_43 (G1), Gideon_43 (G1), GoldenAsh_43 (G1), Gomashi_43 (G1), Grizzly_43 (G1), Hotshotbaby7_43 (G1), Jolene_43 (G1), Jonghyun_42 (G1), JorRay_43 (G1), Kareem_43 (G1), Kasen3_43 (G1), LouisV14_45 (G1), MZKinsey_43 (G1), Maliketh_43 (G1), Marmie_43 (G1), Mowgli_43 (G1), Neoh_43 (G), OctaviousRex_43 (G1), Olga_43 (G1), Paito_44 (G1), Peeb_43 (G1), Periodt_43 (G1), Phloodle_43 (G1), Plagueis_43 (G1), Rattrick_43 (G1), Remy19_43 (G1), Renaissance_43 (G1), Richarlison_43 (G1), Ruriko_43 (G1), ShaboiShabazz_43 (G1), Sizemore_43 (G1), Sweets_43 (G1), Taheera_42 (G1), Terror_42 (G1), TomBrady_43 (G1), Wendigo_43 (G1), ZoMa_43 (G1), Zombie_43 (G1),

Start 21:
• Found in 2 of 115 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 109
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cloudyecho_44 (G3), MOOREtheMARYer_45 (G3),

Start 23:
• Found in 1 of 115 (0.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jolie2_43 (G4),

Start 24:
• Found in 79 of 115 (68.7%) of genes in pham
• Manual Annotations of this start: 28 of 109
• Called 40.5% of time when present
• Phage (with cluster) where this start called: AizenPogi_43 (G1), Angel_43 (G1), Annihilator_43 (G1), Avrafan_43 (G1), BPs_43 (G1), BQuat_43 (G1), BruceB_43 (G1), Camri_43 (G1), CassieYates_43 (G1), Cedasite_43 (G1), Crespo_43 (G1), DNAIII_0042 (G1), Darionha_43 (G1), ForeverHowLong_43 (G1), Frosty24_43 (G1),

Halo_43 (G1), Hope_43 (G1), Jane_43 (G1), Jeilious_43 (G), Lemuria_45 (G4), Liefie_43 (G1), Mercurio_46 (G4), Phish_43 (G1), Phreak_43 (G1), PinkYoshi_43 (G1), Pinnie_43 (G3), Primanti_43 (G1), Rabbs_44 (G1), Schiebel_43 (G1), Sneeze_44 (G1), Terralys_42 (G1), TinaBug_43 (G1),

Start 25:
• Found in 9 of 115 (7.8%) of genes in pham
• Manual Annotations of this start: 2 of 109
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Antsirabe_43 (G5), Farewell_59 (AF), Pace1224_43 (G2),

Summary by clusters:

There are 8 clusters represented in this pham: G5, G4, G3, G2, G1, AF, G, Q,

Info for manual annotations of cluster AF:
•Start number 25 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster G:
•Start number 20 was manually annotated 1 time for cluster G.
•Start number 24 was manually annotated 1 time for cluster G.

Info for manual annotations of cluster G1:
•Start number 20 was manually annotated 46 times for cluster G1.
•Start number 24 was manually annotated 24 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 17 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 21 was manually annotated 2 times for cluster G3.
•Start number 24 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:
•Start number 24 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 17 was manually annotated 2 times for cluster G5.
•Start number 25 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster Q:
•Start number 16 was manually annotated 1 time for cluster Q.
•Start number 18 was manually annotated 23 times for cluster Q.

Gene Information:

Gene: AizenPogi_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for AizenPogi_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63,

33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Amochick_56 Start: 39892, Stop: 41346, Start Num: 18
Candidate Starts for Amochick_56:
(Start: 18 @39892 has 23 MA's), (29, 39970), (31, 39991), (32, 39997), (35, 40015), (37, 40027), (39, 40036), (41, 40048), (42, 40066), (45, 40081), (46, 40084), (50, 40153), (52, 40171), (57, 40222), (60, 40234), (65, 40318), (69, 40384), (72, 40420), (75, 40429), (81, 40495), (82, 40519), (83, 40522), (85, 40537), (87, 40561), (89, 40576), (90, 40579), (92, 40606), (96, 40696), (104, 40771), (106, 40903), (107, 40906), (117, 41065), (119, 41077), (120, 41098), (126, 41152), (127, 41155), (128, 41164), (130, 41176), (136, 41218), (138, 41233), (149, 41335),

Gene: Amymech_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Amymech_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Angel_43 Start: 32995, Stop: 34383, Start Num: 24
Candidate Starts for Angel_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34087), (131, 34186), (150, 34342),

Gene: Annihilator_43 Start: 33001, Stop: 34389, Start Num: 24
Candidate Starts for Annihilator_43:
(13, 32791), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298), (57, 33322), (63, 33385), (64, 33391), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (90, 33661), (92, 33688), (105, 33895), (118, 34093), (131, 34192), (150, 34348),

Gene: Antsirabe_43 Start: 34057, Stop: 35427, Start Num: 25
Candidate Starts for Antsirabe_43:
(13, 33841), (15, 33931), (Start: 17 @34021 has 6 MA's), (Start: 25 @34057 has 2 MA's), (29, 34102), (50, 34285), (53, 34312), (56, 34330), (57, 34354), (63, 34417), (70, 34498), (76, 34555), (78, 34591), (79, 34597), (81, 34609), (83, 34636), (87, 34675), (88, 34687), (90, 34693), (94, 34774), (105, 34939), (118, 35137), (146, 35359), (151, 35395),

Gene: Aroostook_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Aroostook_43:
(3, 32023), (7, 32395), (9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Avocado_44 Start: 35068, Stop: 36498, Start Num: 17
Candidate Starts for Avocado_44:
(Start: 17 @35068 has 6 MA's), (Start: 25 @35101 has 2 MA's), (29, 35143), (30, 35161), (45, 35254), (54, 35356), (56, 35371), (57, 35395), (63, 35458), (64, 35464), (71, 35560), (76, 35596), (78, 35632),

(79, 35638), (81, 35650), (83, 35677), (87, 35716), (88, 35728), (90, 35734), (97, 35848), (98, 35866), (105, 36004), (118, 36208), (134, 36325), (140, 36367), (146, 36430), (151, 36466),

Gene: Avrafan_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Avrafan_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: AzulaCat_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for AzulaCat_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: BPs_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for BPs_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: BQuat_43 Start: 33001, Stop: 34389, Start Num: 24
Candidate Starts for BQuat_43:
(13, 32791), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298), (57, 33322), (63, 33385), (64, 33391), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (90, 33661), (92, 33688), (105, 33895), (118, 34093), (131, 34192), (150, 34348),

Gene: Barkley26_43 Start: 32996, Stop: 34405, Start Num: 20
Candidate Starts for Barkley26_43:
(13, 32807), (Start: 20 @32996 has 47 MA's), (Start: 24 @33017 has 28 MA's), (33, 33098), (34, 33110), (38, 33131), (39, 33134), (45, 33197), (47, 33245), (51, 33278), (56, 33314), (57, 33338), (63, 33401), (64, 33407), (76, 33539), (77, 33569), (81, 33593), (83, 33620), (84, 33623), (90, 33677), (92, 33704), (105, 33911), (118, 34109), (131, 34208), (150, 34364),

Gene: BloominB_55 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for BloominB_55:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: BruceB_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for BruceB_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: CLED96_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for CLED96_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Cambiare_45 Start: 35311, Stop: 36741, Start Num: 17
Candidate Starts for Cambiare_45:
(Start: 17 @35311 has 6 MA's), (Start: 25 @35344 has 2 MA's), (29, 35386), (30, 35404), (45, 35497), (54, 35599), (56, 35614), (57, 35638), (63, 35701), (64, 35707), (71, 35803), (76, 35839), (78, 35875), (79, 35881), (81, 35893), (83, 35920), (87, 35959), (88, 35971), (90, 35977), (97, 36091), (98, 36109), (105, 36247), (118, 36451), (134, 36568), (140, 36610), (146, 36673), (151, 36709),

Gene: Camri_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Camri_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: CassieYates_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for CassieYates_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Cedasite_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Cedasite_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Chance64_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Chance64_43:
(3, 32023), (7, 32395), (9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Cherrybomb426_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Cherrybomb426_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Cloudyecho_44 Start: 34783, Stop: 36225, Start Num: 21
Candidate Starts for Cloudyecho_44:

(13, 34588), (14, 34660), (Start: 21 @34783 has 2 MA's), (26, 34798), (29, 34843), (30, 34861), (45, 34954), (56, 35071), (57, 35095), (62, 35128), (63, 35158), (70, 35239), (76, 35296), (81, 35350), (83, 35377), (87, 35416), (88, 35428), (90, 35434), (95, 35515), (97, 35545), (98, 35563), (118, 35932), (134, 36049), (140, 36091), (145, 36151), (146, 36154), (147, 36166),

Gene: Coleslaw_43 Start: 32980, Stop: 34389, Start Num: 20
Candidate Starts for Coleslaw_43:
(13, 32791), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298), (57, 33322), (63, 33385), (64, 33391), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (90, 33661), (92, 33688), (105, 33895), (118, 34093), (131, 34192), (150, 34348),

Gene: Crespo_43 Start: 33011, Stop: 34399, Start Num: 24
Candidate Starts for Crespo_43:
(13, 32801), (Start: 20 @32990 has 47 MA's), (Start: 24 @33011 has 28 MA's), (33, 33092), (34, 33104), (38, 33125), (39, 33128), (45, 33191), (47, 33239), (51, 33272), (56, 33308), (57, 33332), (63, 33395), (64, 33401), (76, 33533), (77, 33563), (81, 33587), (83, 33614), (84, 33617), (90, 33671), (92, 33698), (105, 33905), (118, 34103), (131, 34202), (150, 34358),

Gene: DMoney_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for DMoney_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: DNAIII_0042 Start: 31644, Stop: 33047, Start Num: 24
Candidate Starts for DNAIII_0042:
(3, 30657), (7, 31029), (9, 31182), (Start: 20 @31623 has 47 MA's), (Start: 24 @31644 has 28 MA's), (33, 31725), (34, 31737), (38, 31758), (39, 31761), (45, 31824), (47, 31872), (51, 31905), (56, 31941), (57, 31965), (63, 32028), (76, 32166), (77, 32196), (81, 32220), (83, 32247), (84, 32250), (88, 32298), (90, 32304), (92, 32331), (103, 32484), (105, 32547), (118, 32751), (131, 32850),

Gene: Daegal_58 Start: 40452, Stop: 41900, Start Num: 18
Candidate Starts for Daegal_58:
(Start: 18 @40452 has 23 MA's), (29, 40530), (31, 40551), (32, 40557), (35, 40575), (37, 40587), (39, 40596), (41, 40608), (42, 40626), (45, 40641), (46, 40644), (50, 40713), (52, 40731), (57, 40782), (60, 40794), (65, 40878), (69, 40944), (72, 40980), (75, 40989), (81, 41055), (82, 41079), (83, 41082), (85, 41097), (87, 41121), (89, 41136), (90, 41139), (92, 41166), (96, 41256), (104, 41331), (106, 41469), (107, 41472), (117, 41619), (119, 41631), (120, 41652), (126, 41706), (127, 41709), (128, 41718), (130, 41730), (136, 41772), (138, 41787), (149, 41889),

Gene: Darionha_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Darionha_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: DeepSoil15_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for DeepSoil15_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60,

40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Dewey_53 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Dewey_53:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: DingDing_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for DingDing_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: ECartman_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for ECartman_43:
(3, 32023), (7, 32395), (9, 32548), (13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Ein37_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Ein37_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Evanesce_55 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Evanesce_55:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Farewell_59 Start: 40067, Stop: 41413, Start Num: 25
Candidate Starts for Farewell_59:
(Start: 25 @40067 has 2 MA's), (29, 40109), (34, 40151), (39, 40175), (40, 40181), (43, 40205), (46, 40223), (48, 40286), (50, 40298), (52, 40316), (57, 40367), (58, 40370), (62, 40400), (63, 40430), (64, 40436), (67, 40496), (70, 40511), (76, 40568), (81, 40622), (83, 40649), (86, 40676), (88, 40700), (118, 41138), (122, 41183), (124, 41213), (131, 41249), (140, 41309),

Gene: FlagStaff_43 Start: 34088, Stop: 35491, Start Num: 17
Candidate Starts for FlagStaff_43:
(Start: 17 @34088 has 6 MA's), (Start: 25 @34121 has 2 MA's), (29, 34166), (30, 34184), (45, 34277), (56, 34394), (57, 34418), (59, 34427), (63, 34481), (70, 34562), (71, 34583), (76, 34619), (78, 34655), (81, 34673), (83, 34700), (87, 34739), (88, 34751), (90, 34757), (118, 35195), (134, 35312), (137, 35339), (138, 35345), (140, 35354), (142, 35390), (145, 35414), (146, 35417),

Gene: ForeverHowLong_43 Start: 33005, Stop: 34393, Start Num: 24
Candidate Starts for ForeverHowLong_43:
(13, 32795), (Start: 20 @32984 has 47 MA's), (Start: 24 @33005 has 28 MA's), (33, 33086), (34, 33098), (38, 33119), (39, 33122), (45, 33185), (47, 33233), (51, 33266), (56, 33302), (57, 33326), (63, 33389), (64, 33395), (76, 33527), (77, 33557), (81, 33581), (83, 33608), (84, 33611), (90, 33665), (92, 33692), (105, 33899), (118, 34097), (131, 34196), (150, 34352),

Gene: Forge_53 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Forge_53:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Frosty24_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Frosty24_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Gancho_55 Start: 39591, Stop: 41027, Start Num: 18
Candidate Starts for Gancho_55:
(Start: 18 @39591 has 23 MA's), (29, 39669), (31, 39690), (32, 39696), (35, 39714), (37, 39726), (39, 39735), (41, 39747), (42, 39765), (45, 39780), (46, 39783), (50, 39852), (52, 39870), (57, 39921), (65, 40017), (69, 40083), (72, 40119), (75, 40128), (81, 40194), (82, 40218), (83, 40221), (85, 40236), (87, 40260), (89, 40275), (90, 40278), (92, 40305), (96, 40395), (104, 40470), (106, 40596), (107, 40599), (117, 40746), (119, 40758), (120, 40779), (126, 40833), (127, 40836), (128, 40845), (130, 40857), (136, 40899), (138, 40914), (149, 41016),

Gene: Gideon_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Gideon_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Giles_53 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Giles_53:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134),

(130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: GodSpeed_43 Start: 34191, Stop: 35585, Start Num: 17
Candidate Starts for GodSpeed_43:
(Start: 17 @34191 has 6 MA's), (Start: 25 @34218 has 2 MA's), (29, 34266), (45, 34377), (54, 34479), (56, 34494), (57, 34518), (63, 34581), (71, 34683), (76, 34719), (78, 34755), (79, 34761), (80, 34764), (81, 34773), (83, 34800), (87, 34839), (90, 34857), (98, 34992), (118, 35298), (134, 35415), (139, 35451), (143, 35499), (144, 35508), (146, 35520),

Gene: GoldenAsh_43 Start: 32974, Stop: 34383, Start Num: 20
Candidate Starts for GoldenAsh_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34087), (131, 34186), (150, 34342),

Gene: Gomashi_43 Start: 32990, Stop: 34399, Start Num: 20
Candidate Starts for Gomashi_43:
(13, 32801), (Start: 20 @32990 has 47 MA's), (Start: 24 @33011 has 28 MA's), (33, 33092), (34, 33104), (38, 33125), (39, 33128), (45, 33191), (47, 33239), (51, 33272), (56, 33308), (57, 33332), (63, 33395), (64, 33401), (76, 33533), (77, 33563), (81, 33587), (83, 33614), (84, 33617), (90, 33671), (92, 33698), (105, 33905), (118, 34103), (131, 34202), (150, 34358),

Gene: Gravaillia_54 Start: 39882, Stop: 41324, Start Num: 18
Candidate Starts for Gravaillia_54:
(10, 39504), (12, 39591), (Start: 18 @39882 has 23 MA's), (29, 39957), (31, 39978), (35, 40002), (39, 40023), (42, 40053), (45, 40068), (46, 40071), (50, 40140), (57, 40209), (65, 40305), (69, 40371), (72, 40407), (75, 40416), (81, 40482), (82, 40506), (83, 40509), (85, 40524), (87, 40548), (89, 40563), (90, 40566), (92, 40593), (93, 40650), (96, 40695), (106, 40902), (107, 40905), (117, 41043), (119, 41055), (120, 41076), (125, 41124), (126, 41130), (127, 41133), (128, 41142), (130, 41154), (136, 41196), (138, 41211), (144, 41271), (149, 41313),

Gene: Grizzly_43 Start: 32974, Stop: 34389, Start Num: 20
Candidate Starts for Grizzly_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34093), (131, 34192), (150, 34348),

Gene: HH92_55 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for HH92_55:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Hadrien_55 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Hadrien_55:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85,

40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Hail_53 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Hail_53:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Halo_43 Start: 33005, Stop: 34393, Start Num: 24
Candidate Starts for Halo_43:
(13, 32795), (Start: 20 @32984 has 47 MA's), (Start: 24 @33005 has 28 MA's), (33, 33086), (34, 33098), (38, 33119), (39, 33122), (45, 33185), (47, 33233), (51, 33266), (56, 33302), (57, 33326), (63, 33389), (64, 33395), (76, 33527), (77, 33557), (81, 33581), (83, 33608), (84, 33611), (90, 33665), (92, 33692), (105, 33899), (118, 34097), (131, 34196), (150, 34352),

Gene: Hope_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Hope_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Hotshotbaby7_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Hotshotbaby7_43:
(3, 32023), (7, 32395), (9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Jane_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Jane_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Jeilious_43 Start: 33009, Stop: 34397, Start Num: 24
Candidate Starts for Jeilious_43:
(13, 32799), (Start: 20 @32988 has 47 MA's), (Start: 24 @33009 has 28 MA's), (33, 33090), (34, 33102), (38, 33123), (39, 33126), (45, 33189), (47, 33237), (51, 33270), (56, 33306), (57, 33330), (63, 33393), (64, 33399), (76, 33531), (77, 33561), (81, 33585), (83, 33612), (84, 33615), (90, 33669), (92, 33696), (105, 33903), (118, 34101), (131, 34200), (150, 34356),

Gene: Jolene_43 Start: 32989, Stop: 34413, Start Num: 20
Candidate Starts for Jolene_43:
(9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (88, 33664), (90, 33670), (92, 33697),

(103, 33850), (105, 33913), (118, 34117), (131, 34216),

Gene: Jolie2_43 Start: 33530, Stop: 34966, Start Num: 23
Candidate Starts for Jolie2_43:
(4, 32540), (7, 32903), (15, 33401), (23, 33530), (29, 33587), (33, 33620), (34, 33632), (44, 33689), (45, 33701), (52, 33791), (54, 33803), (56, 33818), (57, 33842), (59, 33851), (63, 33905), (73, 34016), (81, 34091), (83, 34118), (86, 34145), (88, 34169), (90, 34175), (105, 34415), (110, 34532), (118, 34670), (131, 34769), (134, 34787), (137, 34814), (142, 34865), (144, 34880),

Gene: Jonghyun_42 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Jonghyun_42:
(3, 32023), (7, 32395), (9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: JorRay_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for JorRay_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Kareem_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Kareem_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Kasen3_43 Start: 32975, Stop: 34384, Start Num: 20
Candidate Starts for Kasen3_43:
(13, 32786), (Start: 20 @32975 has 47 MA's), (Start: 24 @32996 has 28 MA's), (33, 33077), (34, 33089), (38, 33110), (39, 33113), (45, 33176), (47, 33224), (51, 33257), (56, 33293), (57, 33317), (63, 33380), (64, 33386), (76, 33518), (77, 33548), (81, 33572), (83, 33599), (84, 33602), (90, 33656), (92, 33683), (105, 33890), (118, 34088), (131, 34187), (150, 34343),

Gene: Kinbote_55 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Kinbote_55:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Lemuria_45 Start: 34871, Stop: 36319, Start Num: 24
Candidate Starts for Lemuria_45:
(2, 33845), (6, 34187), (7, 34241), (8, 34295), (11, 34469), (14, 34721), (19, 34841), (Start: 24 @34871 has 28 MA's), (29, 34931), (33, 34964), (34, 34976), (44, 35033), (45, 35045), (54, 35147), (56, 35162), (57, 35186), (59, 35195), (75, 35366), (81, 35435), (83, 35462), (88, 35513), (90, 35519), (92, 35546), (97, 35651), (105, 35777), (115, 35918), (118, 36023), (131, 36122), (140, 36182), (141, 36191), (142, 36218), (144, 36233),

Gene: Liefie_43 Start: 33008, Stop: 34411, Start Num: 24
Candidate Starts for Liefie_43:
(3, 32021), (7, 32393), (9, 32546), (Start: 20 @32987 has 47 MA's), (Start: 24 @33008 has 28 MA's), (33, 33089), (34, 33101), (38, 33122), (39, 33125), (45, 33188), (47, 33236), (51, 33269), (54, 33290), (56, 33305), (57, 33329), (63, 33392), (76, 33530), (77, 33560), (81, 33584), (83, 33611), (84, 33614), (88, 33662), (90, 33668), (92, 33695), (103, 33848), (105, 33911), (118, 34115), (131, 34214),

Gene: LilHazelnut_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for LilHazelnut_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: LouisV14_45 Start: 35254, Stop: 36663, Start Num: 20
Candidate Starts for LouisV14_45:
(13, 35065), (Start: 20 @35254 has 47 MA's), (Start: 24 @35275 has 28 MA's), (33, 35356), (34, 35368), (38, 35389), (39, 35392), (45, 35455), (47, 35503), (51, 35536), (56, 35572), (57, 35596), (63, 35659), (64, 35665), (76, 35797), (77, 35827), (81, 35851), (83, 35878), (84, 35881), (90, 35935), (92, 35962), (105, 36169), (118, 36367), (131, 36466), (150, 36622),

Gene: Luke_55 Start: 39823, Stop: 41271, Start Num: 18
Candidate Starts for Luke_55:
(Start: 18 @39823 has 23 MA's), (29, 39901), (31, 39922), (32, 39928), (35, 39946), (37, 39958), (39, 39967), (41, 39979), (42, 39997), (45, 40012), (46, 40015), (50, 40084), (52, 40102), (57, 40153), (60, 40165), (65, 40249), (69, 40315), (72, 40351), (75, 40360), (81, 40426), (82, 40450), (83, 40453), (85, 40468), (87, 40492), (89, 40507), (90, 40510), (92, 40537), (93, 40594), (96, 40639), (106, 40840), (107, 40843), (117, 40990), (119, 41002), (120, 41023), (126, 41077), (127, 41080), (128, 41089), (130, 41101), (136, 41143), (138, 41158), (149, 41260),

Gene: Luna22_53 Start: 39852, Stop: 41300, Start Num: 18
Candidate Starts for Luna22_53:
(Start: 18 @39852 has 23 MA's), (29, 39930), (31, 39951), (32, 39957), (35, 39975), (37, 39987), (39, 39996), (41, 40008), (42, 40026), (45, 40041), (46, 40044), (50, 40113), (52, 40131), (57, 40182), (60, 40194), (65, 40278), (69, 40344), (72, 40380), (75, 40389), (81, 40455), (82, 40479), (83, 40482), (85, 40497), (87, 40521), (89, 40536), (90, 40539), (92, 40566), (93, 40623), (96, 40668), (106, 40869), (107, 40872), (117, 41019), (119, 41031), (120, 41052), (126, 41106), (127, 41109), (128, 41118), (130, 41130), (136, 41172), (138, 41187), (149, 41289),

Gene: MOOREtheMARYer_45 Start: 34546, Stop: 35991, Start Num: 21
Candidate Starts for MOOREtheMARYer_45:
(7, 33946), (8, 34000), (Start: 21 @34546 has 2 MA's), (26, 34561), (29, 34606), (36, 34654), (44, 34705), (50, 34789), (53, 34816), (56, 34834), (57, 34858), (61, 34873), (62, 34891), (63, 34921), (70, 35002), (76, 35059), (78, 35095), (81, 35113), (83, 35140), (87, 35179), (88, 35191), (90, 35197), (95, 35281), (98, 35329), (118, 35698), (145, 35917), (146, 35920), (147, 35932),

Gene: MZKinsey_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for MZKinsey_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63,

33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Maliketh_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Maliketh_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Marmie_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Marmie_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Mercurio_46 Start: 35410, Stop: 36855, Start Num: 24
Candidate Starts for Mercurio_46:
(1, 34264), (3, 34408), (6, 34726), (7, 34780), (8, 34834), (11, 35008), (15, 35278), (19, 35380), (Start: 24 @35410 has 28 MA's), (33, 35497), (34, 35509), (44, 35566), (45, 35578), (54, 35680), (56, 35695), (57, 35719), (59, 35728), (63, 35782), (71, 35884), (76, 35920), (81, 35974), (83, 36001), (86, 36028), (88, 36052), (90, 36058), (105, 36322), (118, 36559), (121, 36592), (131, 36658), (142, 36754), (144, 36769),

Gene: Mowgli_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Mowgli_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Neoh_43 Start: 32981, Stop: 34390, Start Num: 20
Candidate Starts for Neoh_43:
(13, 32792), (Start: 20 @32981 has 47 MA's), (Start: 24 @33002 has 28 MA's), (33, 33083), (34, 33095), (38, 33116), (39, 33119), (45, 33182), (47, 33230), (51, 33263), (56, 33299), (57, 33323), (63, 33386), (64, 33392), (76, 33524), (77, 33554), (81, 33578), (83, 33605), (84, 33608), (90, 33662), (92, 33689), (105, 33896), (118, 34094), (131, 34193), (150, 34349),

Gene: NovoPizza_56 Start: 40507, Stop: 42033, Start Num: 16
Candidate Starts for NovoPizza_56:
(Start: 16 @40507 has 1 MA's), (22, 40555), (28, 40594), (34, 40681), (38, 40702), (39, 40705), (42, 40735), (46, 40753), (49, 40816), (50, 40822), (51, 40831), (55, 40858), (57, 40891), (68, 41011), (71, 41041), (74, 41059), (81, 41134), (83, 41161), (88, 41212), (90, 41218), (91, 41224), (101, 41416), (102, 41419), (107, 41560), (108, 41587), (109, 41590), (111, 41611), (113, 41632), (114, 41635), (116, 41743), (117, 41749), (120, 41782), (123, 41797), (133, 41875), (134, 41887), (135, 41896), (140, 41929), (144, 41980), (148, 42007), (149, 42022),

Gene: OBUpride_56 Start: 39882, Stop: 41312, Start Num: 18
Candidate Starts for OBUpride_56:
(10, 39504), (12, 39591), (Start: 18 @39882 has 23 MA's), (29, 39957), (31, 39978), (35, 40002), (39, 40023), (42, 40053), (45, 40068), (46, 40071), (50, 40140), (57, 40209), (65, 40305), (69, 40371), (72, 40407), (75, 40416), (81, 40482), (82, 40506), (83, 40509), (85, 40524), (87, 40548), (89, 40563), (90,

40566), (92, 40593), (93, 40650), (96, 40695), (106, 40890), (107, 40893), (117, 41031), (119, 41043), (120, 41064), (125, 41112), (126, 41118), (127, 41121), (128, 41130), (130, 41142), (136, 41184), (138, 41199), (144, 41259), (149, 41301),

Gene: OctaviousRex_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for OctaviousRex_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Olga_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Olga_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Pace1224_43 Start: 34121, Stop: 35515, Start Num: 25
Candidate Starts for Pace1224_43:
(Start: 17 @34088 has 6 MA's), (Start: 25 @34121 has 2 MA's), (29, 34169), (30, 34187), (45, 34280), (52, 34370), (56, 34397), (57, 34421), (63, 34484), (70, 34565), (71, 34586), (76, 34622), (78, 34658), (81, 34676), (83, 34703), (87, 34742), (88, 34754), (90, 34760), (98, 34892), (118, 35222), (132, 35324), (134, 35339), (143, 35423), (145, 35441), (146, 35444),

Gene: Paito_44 Start: 33230, Stop: 34675, Start Num: 20
Candidate Starts for Paito_44:
(5, 32375), (7, 32633), (13, 33041), (Start: 20 @33230 has 47 MA's), (Start: 24 @33251 has 28 MA's), (33, 33332), (34, 33344), (38, 33365), (39, 33368), (45, 33431), (47, 33479), (51, 33512), (56, 33548), (57, 33572), (63, 33635), (76, 33773), (77, 33803), (81, 33827), (83, 33854), (84, 33857), (88, 33905), (90, 33911), (92, 33938), (105, 34145), (112, 34268), (118, 34376),

Gene: Peeb_43 Start: 32974, Stop: 34389, Start Num: 20
Candidate Starts for Peeb_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34093), (131, 34192), (150, 34348),

Gene: Periodt_43 Start: 32980, Stop: 34404, Start Num: 20
Candidate Starts for Periodt_43:
(3, 32014), (7, 32386), (9, 32539), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298), (57, 33322), (63, 33385), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (88, 33655), (90, 33661), (92, 33688), (103, 33841), (105, 33904), (118, 34108), (131, 34207),

Gene: Phish_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Phish_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Phloodle_43 Start: 32989, Stop: 34413, Start Num: 20
Candidate Starts for Phloodle_43:
(3, 32023), (7, 32395), (9, 32548), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (88, 33664), (90, 33670), (92, 33697), (103, 33850), (105, 33913), (118, 34117), (131, 34216),

Gene: Phreak_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Phreak_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: PinkYoshi_43 Start: 33001, Stop: 34389, Start Num: 24
Candidate Starts for PinkYoshi_43:
(13, 32791), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298), (57, 33322), (63, 33385), (64, 33391), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (90, 33661), (92, 33688), (105, 33895), (118, 34093), (131, 34192), (150, 34348),

Gene: Pinnie_43 Start: 34270, Stop: 35709, Start Num: 24
Candidate Starts for Pinnie_43:
(Start: 24 @34270 has 28 MA's), (29, 34324), (34, 34366), (36, 34372), (50, 34507), (56, 34552), (57, 34576), (62, 34609), (63, 34639), (66, 34678), (70, 34720), (76, 34777), (78, 34813), (81, 34831), (83, 34858), (87, 34897), (88, 34909), (90, 34915), (95, 34999), (97, 35029), (98, 35047), (118, 35416), (134, 35533), (140, 35575), (146, 35638), (147, 35650),

Gene: Plagueis_43 Start: 32809, Stop: 34218, Start Num: 20
Candidate Starts for Plagueis_43:
(13, 32620), (Start: 20 @32809 has 47 MA's), (Start: 24 @32830 has 28 MA's), (33, 32911), (34, 32923), (38, 32944), (39, 32947), (45, 33010), (47, 33058), (51, 33091), (56, 33127), (57, 33151), (63, 33214), (64, 33220), (76, 33352), (77, 33382), (81, 33406), (83, 33433), (84, 33436), (90, 33490), (92, 33517), (105, 33724), (118, 33922), (131, 34021), (150, 34177),

Gene: Primanti_43 Start: 33010, Stop: 34398, Start Num: 24
Candidate Starts for Primanti_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Rabbs_44 Start: 33198, Stop: 34574, Start Num: 24
Candidate Starts for Rabbs_44:
(3, 32211), (7, 32583), (Start: 20 @33177 has 47 MA's), (Start: 24 @33198 has 28 MA's), (27, 33222), (33, 33279), (34, 33291), (38, 33312), (39, 33315), (45, 33378), (47, 33426), (56, 33495), (57, 33519), (63, 33582), (76, 33720), (81, 33774), (83, 33801), (84, 33804), (88, 33852), (90, 33858), (100, 34005), (105, 34068), (107, 34137), (118, 34272), (121, 34305), (129, 34359),

Gene: Rattrick_43 Start: 32980, Stop: 34404, Start Num: 20
Candidate Starts for Rattrick_43:
(3, 32014), (7, 32386), (9, 32539), (Start: 20 @32980 has 47 MA's), (Start: 24 @33001 has 28 MA's), (33, 33082), (34, 33094), (38, 33115), (39, 33118), (45, 33181), (47, 33229), (51, 33262), (56, 33298),

(57, 33322), (63, 33385), (76, 33523), (77, 33553), (81, 33577), (83, 33604), (84, 33607), (88, 33655), (90, 33661), (92, 33688), (103, 33841), (105, 33904), (118, 34108), (131, 34207),

Gene: Remy19_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Remy19_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Renaissance_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Renaissance_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Richarlison_43 Start: 32974, Stop: 34383, Start Num: 20
Candidate Starts for Richarlison_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34087), (131, 34186), (150, 34342),

Gene: Ruriko_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Ruriko_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Schiebel_43 Start: 32995, Stop: 34383, Start Num: 24
Candidate Starts for Schiebel_43:
(13, 32785), (Start: 20 @32974 has 47 MA's), (Start: 24 @32995 has 28 MA's), (33, 33076), (34, 33088), (38, 33109), (39, 33112), (45, 33175), (47, 33223), (51, 33256), (56, 33292), (57, 33316), (63, 33379), (64, 33385), (76, 33517), (77, 33547), (81, 33571), (83, 33598), (84, 33601), (90, 33655), (92, 33682), (105, 33889), (118, 34087), (131, 34186), (150, 34342),

Gene: ShaboiShabazz_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for ShaboiShabazz_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Sizemore_43 Start: 32975, Stop: 34384, Start Num: 20
Candidate Starts for Sizemore_43:
(13, 32786), (Start: 20 @32975 has 47 MA's), (Start: 24 @32996 has 28 MA's), (33, 33077), (34, 33089), (38, 33110), (39, 33113), (45, 33176), (47, 33224), (51, 33257), (56, 33293), (57, 33317), (63, 33380), (64, 33386), (76, 33518), (77, 33548), (81, 33572), (83, 33599), (84, 33602), (90, 33656), (92, 33683), (105, 33890), (118, 34088), (131, 34187), (150, 34343),

Gene: Sneeze_44 Start: 33197, Stop: 34573, Start Num: 24

Candidate Starts for Sneeze_44:
(3, 32210), (7, 32582), (Start: 20 @33176 has 47 MA's), (Start: 24 @33197 has 28 MA's), (27, 33221), (33, 33278), (34, 33290), (38, 33311), (39, 33314), (45, 33377), (47, 33425), (56, 33494), (57, 33518), (63, 33581), (76, 33719), (81, 33773), (83, 33800), (84, 33803), (88, 33851), (90, 33857), (100, 34004), (105, 34067), (107, 34136), (118, 34271), (121, 34304), (129, 34358),

Gene: Stargaze_44 Start: 34260, Stop: 35672, Start Num: 17
Candidate Starts for Stargaze_44:
(13, 34080), (15, 34170), (Start: 17 @34260 has 6 MA's), (Start: 25 @34296 has 2 MA's), (30, 34356), (34, 34380), (45, 34449), (54, 34551), (56, 34566), (57, 34590), (59, 34599), (63, 34653), (70, 34734), (81, 34845), (83, 34872), (87, 34911), (88, 34923), (90, 34929), (94, 35010), (99, 35061), (105, 35181), (118, 35379), (140, 35538), (146, 35601), (147, 35613),

Gene: Sweets_43 Start: 32984, Stop: 34393, Start Num: 20
Candidate Starts for Sweets_43:
(13, 32795), (Start: 20 @32984 has 47 MA's), (Start: 24 @33005 has 28 MA's), (33, 33086), (34, 33098), (38, 33119), (39, 33122), (45, 33185), (47, 33233), (51, 33266), (56, 33302), (57, 33326), (63, 33389), (64, 33395), (76, 33527), (77, 33557), (81, 33581), (83, 33608), (84, 33611), (90, 33665), (92, 33692), (105, 33899), (118, 34097), (131, 34196), (150, 34352),

Gene: Taheera_42 Start: 32680, Stop: 34113, Start Num: 20
Candidate Starts for Taheera_42:
(Start: 20 @32680 has 47 MA's), (Start: 24 @32701 has 28 MA's), (27, 32725), (33, 32782), (34, 32794), (38, 32815), (39, 32818), (45, 32881), (47, 32929), (56, 32998), (57, 33022), (63, 33085), (76, 33223), (81, 33277), (83, 33304), (84, 33307), (88, 33355), (90, 33361), (105, 33595), (118, 33814), (121, 33847),

Gene: Terralys_42 Start: 32944, Stop: 34332, Start Num: 24
Candidate Starts for Terralys_42:
(13, 32734), (Start: 20 @32923 has 47 MA's), (Start: 24 @32944 has 28 MA's), (33, 33025), (34, 33037), (38, 33058), (39, 33061), (45, 33124), (47, 33172), (51, 33205), (56, 33241), (57, 33265), (63, 33328), (64, 33334), (76, 33466), (77, 33496), (81, 33520), (83, 33547), (84, 33550), (90, 33604), (92, 33631), (105, 33838), (118, 34036), (131, 34135), (150, 34291),

Gene: Terror_42 Start: 32680, Stop: 34113, Start Num: 20
Candidate Starts for Terror_42:
(Start: 20 @32680 has 47 MA's), (Start: 24 @32701 has 28 MA's), (27, 32725), (33, 32782), (34, 32794), (38, 32815), (39, 32818), (45, 32881), (47, 32929), (56, 32998), (57, 33022), (63, 33085), (76, 33223), (81, 33277), (83, 33304), (84, 33307), (88, 33355), (90, 33361), (105, 33595), (118, 33814), (121, 33847),

Gene: TinaBug_43 Start: 33005, Stop: 34393, Start Num: 24
Candidate Starts for TinaBug_43:
(13, 32795), (Start: 20 @32984 has 47 MA's), (Start: 24 @33005 has 28 MA's), (33, 33086), (34, 33098), (38, 33119), (39, 33122), (45, 33185), (47, 33233), (51, 33266), (56, 33302), (57, 33326), (63, 33389), (64, 33395), (76, 33527), (77, 33557), (81, 33581), (83, 33608), (84, 33611), (90, 33665), (92, 33692), (105, 33899), (118, 34097), (131, 34196), (150, 34352),

Gene: TomBrady_43 Start: 32990, Stop: 34399, Start Num: 20
Candidate Starts for TomBrady_43:
(13, 32801), (Start: 20 @32990 has 47 MA's), (Start: 24 @33011 has 28 MA's), (33, 33092), (34, 33104), (38, 33125), (39, 33128), (45, 33191), (47, 33239), (51, 33272), (56, 33308), (57, 33332), (63, 33395), (64, 33401), (76, 33533), (77, 33563), (81, 33587), (83, 33614), (84, 33617), (90, 33671), (92,

33698), (105, 33905), (118, 34103), (131, 34202), (150, 34358),

Gene: Ubuntu_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Ubuntu_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Webster2_56 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Webster2_56:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: Wendigo_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Wendigo_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Wishmaker_53 Start: 39868, Stop: 41316, Start Num: 18
Candidate Starts for Wishmaker_53:
(Start: 18 @39868 has 23 MA's), (29, 39946), (31, 39967), (32, 39973), (35, 39991), (37, 40003), (39, 40012), (41, 40024), (42, 40042), (45, 40057), (46, 40060), (50, 40129), (52, 40147), (57, 40198), (60, 40210), (65, 40294), (69, 40360), (72, 40396), (75, 40405), (81, 40471), (82, 40495), (83, 40498), (85, 40513), (87, 40537), (89, 40552), (90, 40555), (92, 40582), (93, 40639), (96, 40684), (106, 40885), (107, 40888), (117, 41035), (119, 41047), (120, 41068), (126, 41122), (127, 41125), (128, 41134), (130, 41146), (136, 41188), (138, 41203), (149, 41305),

Gene: YangYin_44 Start: 34286, Stop: 35686, Start Num: 17
Candidate Starts for YangYin_44:
(13, 34106), (15, 34196), (Start: 17 @34286 has 6 MA's), (Start: 25 @34322 has 2 MA's), (30, 34382), (34, 34406), (45, 34475), (54, 34577), (56, 34592), (57, 34616), (63, 34679), (70, 34760), (81, 34871), (83, 34898), (87, 34937), (88, 34949), (90, 34955), (94, 35036), (95, 35039), (99, 35087), (105, 35195), (118, 35393), (140, 35552), (146, 35615), (147, 35627),

Gene: ZoMa_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for ZoMa_43:
(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),

Gene: Zombie_43 Start: 32989, Stop: 34398, Start Num: 20
Candidate Starts for Zombie_43:

(13, 32800), (Start: 20 @32989 has 47 MA's), (Start: 24 @33010 has 28 MA's), (33, 33091), (34, 33103), (38, 33124), (39, 33127), (45, 33190), (47, 33238), (51, 33271), (56, 33307), (57, 33331), (63, 33394), (64, 33400), (76, 33532), (77, 33562), (81, 33586), (83, 33613), (84, 33616), (90, 33670), (92, 33697), (105, 33904), (118, 34102), (131, 34201), (150, 34357),